PTO/SB/05 (08-03)
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

spond to a collection of inform	lation unless it displays a valid OMB co	ontroi number.
Attorney Docket No.	18-595-1-1	
First Inventor	Dale A. Davison	
Title	GRADIENT DENSITY METHOD AND APPARATUS	
Express Mail Lahel No.	EL 872136645 US	

			1		Mail Char	3-4	** 41	
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.		ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450						
2. Applic See 3 3. Specia (prefer - Desc - Cross - State - Refer or a c - Back - Brief - Brief - Brief	it an original arcant claims so FOR 1.27. fication red arrangeme criptive title of the Sequence to ement Regardin rence to seque ground of the lissummary of the	Related Applications g Fed sponsored R & D nce listing, a table, am listing appendix nvention e Invention the Drawings (if filed)	8. Nucl (if ap a. b.	Computer I leotide and/ plicable, all Comp Spec i. State	r CD-R in dup Program (Appe or Amino Acid necessary) outer Readable ification Seque CD-ROM or C Paper ments verifyin	licate, largendix) I Sequence Form (CI ence Listin CD-R (2 co	e table or e Submissio RF) g on: pies); or	22241 U.S. P 10/700932
- Claim	n(s)		A	CCOMP	ANYING A	PPLICA	TION PAP	RTS
4. Drawii 5. Oath or Dec a. Ne b. Co (fo) i. Appl	claration ewly executed py from a price recontinuation. DELETION Signed statem name in the price 1.63(d)(2) and lication Data	[Total Sheets	9.	37 CFR 3 (when the English T Informatic Statemen Prelimina Return Re (Should b Certified ((if foreign Nonpublic (b)(2)(B)(i or its equi Other: CR	rtificates of Ex vember 4, 200	ent [[nee) cument (if 449 t (MPEP sitemized) y Docume med) t under 35 ust attach (press Mai	Power of Attorney applicable) Copies of Citation 503) nt(s) U.S.C. 122 form PTO/S	of IDS s sB/35
Specification 10	nowing are a	— — — —	/ UFK 1.70.					
Contin	nuation	Divisional Continua	tion-in-part (C	IP) (of prior application	on No.:	•••••	
Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
		19. CORRESPON	DENCE AL	DDRESS				
Custon	ner Number:	000023898		OR	Corre	spondenc	e address be	elow
Name	Vincent L. C	amey						
Address	P.O. Box 80	836						
City	Lincoln		State NE			Zip C	ode 68501-	0836
Country					Fa.	Fax (402) 465-8810		
Name (Print/Type) Vincent L. Carney Registration No. (Attorney/Agent) 20,688								
Signature		ut L. Carney		<u>·</u>		Date	11/04/2003	

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is goveryed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EEE TOANGMITTAL			Complete if Known						
FEE TRANSMITTAL			cation	Numb	er				
for EV 2004			Date						
for FY 2004			Named	Inven	ntor Dale A. Davison	Dale A. Davison			
Effective 10/01/2003. Patent fees are subject to annual revision.			niner N	ame					
Applicant claims small entity status. See 37 CFR 1.27		Art Unit							
TOTAL AMOUNT OF PAYMENT (\$) 554.00		Attorney Docket No. 18-595-1-1			lo. 18–595–1–1				
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)							
X Check Credit card Money Other None	3. /	3. ADDITIONAL FEES							
Deposit Account:	<u>Large</u>	Large Entity Small Entity							
Deposit Account:	Fee Cod	Fee e (\$)	Fee Code	Fee	Fee Description				
Account 03-0778	1051	,	2051		Surcharge - late filing fee or oath	aid			
Number Deposit	1052		2052		Surcharge - late provisional filing fee or	\dashv			
Account Name Vincent L. Carney			1		cover sheet	\dashv			
The Director is authorized to: (check all that apply)	1053		1053		Non-English specification	\dashv I			
Charge fee(s) indicated below	ľ	2,520	1812	•	For filing a request for ex parte reexamination				
X Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804		Requesting publication of SIR prior to Examiner action				
Charge fee(s) indicated below, except for the filing fee		1,840*	1805	1,840*	Requesting publication of SIR after				
to the above-identified deposit account.	4054	440	0054		Examiner action				
FEE CALCULATION	1251 1252		2251		Extension for reply within first month	-			
1. BASIC FILING FEE			2252		Extension for reply within second month				
Large Entity Small Entity Fee Fee Fee Fee Description Fee Paid	1253		2253		Extension for reply within third month	\dashv			
Code (\$) Code (\$)		1,480			Extension for reply within fourth month				
1001 770 2001 385 Utility filing fee 385		2,010	2255	•	Extension for reply within fifth month				
1002 340 2002 170 Design filing fee	1401		2401		Notice of Appeal				
1003 530 2003 265 Plant filing fee	1402		2402		Filing a brief in support of an appeal	\dashv			
1004 770 2004 385 Reissue filing fee	1403		2403	145	Request for oral hearing				
1005 160 2005 80 Provisional filing fee	ł	1,510	1451		Petition to institute a public use proceeding	_			
SUBTOTAL (1) (\$) 385.00	1452		2452	55	Petition to revive - unavoidable				
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2453		Petition to revive - unintentional	 			
Fee from		1,330	2501		Utility issue fee (or reissue)	 ∤I			
Total Claims 20 -20** = 0 x 9 = 0	1502 1503		2502		Design issue fee				
Independent 6 3** - 3 × 43 -120			2503		Plant issue fee				
Claims U - 3 - 2 - 3 - 43 - 129 - 1		130	1460		Petitions to the Commissioner				
' ' L		50	1807		Processing fee under 37 CFR 1.17(q)				
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt				
Code (\$) Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties) 40				
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809		Filing a submission after final rejection (37 CFR 1.129(a))				

SUBMITTED BY		(Complete (if applicable))			
Name (Print/Type)	Vincent L. Carney	Registration No. (Attorney/Agent)	20,688	Telephone	(402) 465-8808
Signature	Vincint L. Carness			Date	11/04/2003

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Other fee (specify)

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*Reduced by Basic Filing Fee Paid

385 For each additional invention to be examined (37 CFR 1.129(b))

900 Request for expedited examination

of a design application

385 Request for Continued Examination (RCE)

SUBTOTAL (3)

l(\$) 40.00

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** Reissue independent claims

** Reissue claims in excess of 20

(\$)

129.00

and over original patent

over original patent

Multiple dependent claim, if not paid

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43

SUBTOTAL (2)

**or number previously paid, if greater; For Reissues, see above

1203 290

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1205



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applica	ant:	Dale A. Davison Phillip B. Liescheski	Paten	t Application
Serial	No:		•	ess Mailing Label: 872136645 US
Filed	:	; ,	,)	
For	:	GRADIENT DENSITY METHOD AND APPARATUS)	Date:	November 4, 2003

CERTIFICATE OF EXPRESS MAIL

I hereby certify that the documents listed below are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450:

- 1. A letter dated November 4, 2003;
- 2. A Utility Patent Application transmittal form dated November 4, 2003;
- 3. A Fee Transmittal Form dated November 4, 2003 (2 copies);
- 4. An Application Data Sheet;
- 5. A patent application entitled GRADIENT DENSITY METHOD AND APPARATUS, by inventors Dale A. Davison and Phillip B. Liescheski;
- 6. Informal Drawings (6 sheets);
- 7. A declaration and power of attorney;
- 8. An assignment of the invention to Isco, Inc.;

EXPRESS MAIL

November 4, 2003

VINCENT L. CARNEY

ATTORNEY AT LAW PATENTS AND TRADEMARKS P.O. BOX 80836 LINCOLN, NEBRASKA 68501-0836 TELEPHONE (402) 465-8808 FACSIMILE (402) 465-8810

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed herewith are the following:

- 1. A letter dated November 4, 2003;
- 2. A Utility Patent Application transmittal form dated November 4, 2003;
- 3. A Fee Transmittal Form dated November 4, 2003 (2 copies):
- 4. An Application Data Sheet;
- 5. A patent application entitled GRADIENT DENSITY METHOD AND APPARATUS, by inventors Dale A. Davison and Phillip B. Liescheski;
- 6. Informal Drawings (6 sheets):
- 7. A declaration and power of attorney;
- 8. An assignment of the invention to Isco, Inc.;
- 9. Two checks for \$514.00 and 40.00; and
- 10. A postcard receipt.

The Commissioner is hereby authorized to charge fees which may be required or credit any overpayment to Deposit Account Nol. 03-0778.

Very truly yours,

Vincent L. Carney

VLC:ktd

Enclosures

- 9. Two checks for \$ 514.00 and 40.00; and
- 10. A postcard receipt.

Vincent L. Carney

Attorney for the Applicant Reg. No. 20,688

P.O. Box 80836

Lincoln, NE 68501-0836

(402) 465-8808

--Our Ref: 18-595-1-1